

0/510132

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

DT04 Rec'd PCT/PTO 0 4 OCT 2004

In re Patent Application of

FURUZONO et al

Atty. Ref.: 1035-530

Serial No. to be assigned

TC/A.U.: to be assigned

Filed: Herewith

Examiner: to be assigned

U.S. National Phase of

PCT/JP2003/016003

filed 12 December 2003

For: TITANIUM OXIDE COMPLEX AND PRODUCTION METHOD  
THEREOF, AND MEDICAL MATERIAL USING THE SAME.

\* \* \* \* \*

Date: October 4, 2004

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

**INFORMATION DISCLOSURE STATEMENT**

As suggested by 37 C.F.R. 1.97, the undersigned attorney brings to the attention of the Patent and Trademark Office the references listed on the attached form PTO-1449.

☐ All listed documents are attached.

☐ This application was filed after June 30, 2003 so that copies of U.S. Patent Publications are not required and are not attached.

☒ Listed foreign patent publications and other documents are enclosed.

☒ The listed documents were cited in the ISR and copies should have been supplied by WIPO directly to the US PTO. If copies are not timely received from WIPO, please telephone the undersigned so that copies can be timely supplied for the Examiner's consideration in this US National Phase Application.

This is not to be construed as a representation that a search has been made or that no better prior art exists, or that a reference is relevant merely because cited.

The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

FURUZONO et al  
Serial No. to be assigned

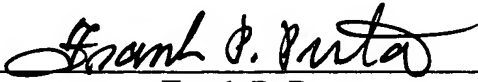
10/510132

DT04 Re CT/PTO 0 4 OCT 2004

The undersigned attorney of record hereby certifies under 37 C.F.R. §1.97(e) that each item of information referenced herein and attached hereto was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

By:   
Frank P. Presta  
Reg. No. 19,828

FPP:cr  
1100 North Glebe Road, 8th Floor  
Arlington, VA 22201-4714  
Telephone: (703) 816-4000  
Facsimile: (703) 816-4100

INFORMATION DISCLOSURE  
CITATION

ATTY. DOCKET NO.

035-530

APPLICANT

FURUZONO et al

SERIAL NO.

10/510132

to assigned

(Use several sheets if necessary)

FILING DATE

TC/A.U.

Herewith

to be assigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
JP 2002-206021 A	07/2002	Japan			ABSTRACT
JP 4-18453 A	01/1992	Japan			ABSTRACT
JP 2001-141905 A	05/2001	Japan			ABSTRACT

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

	K.B. Lehmann et al. "Studien über die hygienischen Eigenschaften des Titandioxyds und des Titanwei ß" (Chemiker-Zeitung, No. 82 pp 793-794 (1927))
	K. Yoshida et al. "Effects of Filler Composition and Surface Treatment on the Characteristics of Opaque Resin Composites" (J. Biomed. Mater. Res. Appl. Biomater 58, pp 525-530 (2001))
	R. Cai et al. "Induction of Cytotoxicity by Photoexcited TiO <sub>2</sub> Particles" (Cancer Research 52, pp 2346-2348 (1992))
	M. Kiyono "Titanium Oxide-Properties and Applied Technology" (pp 80-81, pp 118 (1991))
	T. Furuzono et al. "Development of Amino-Modified Titanium Dioxide/Silicone Composite" (Polymer Preprints, Japan, vol 52, No. 5 p 1130 (2003)) (52 <sup>nd</sup> Annual Convention of Society of Polymer Science, Japan, held at Nagoya Congress Center from May 23-30, 2003)
	Furuzono et al. "Development of nano-scaled titanium dioxide-silicone composite expressing cell adhesiveness and photoreactivity" (Proceedings of the convention, p. 71 (2003) (25 <sup>th</sup> Convention of Japanese Society for Biomaterial held at Osaka International Convention Center, from December 16-17, 2003)
	S. Yasuda et al. "Properties of Titanium dioxide/Silicone composite material having cell adhesiveness and antibacterial effect" (Polymer Preprints, Japan, vol. 53, No. 1 p. 1965 (2004) (53 <sup>rd</sup> Annual Convention of Society of Polymer Science, Japan, held at International Conference Center Kobe, from May 25-27, 2003)
	T. Furuzono et al. "Photoreactivity and cell adhesiveness of amino-group-modified titanium dioxide nano-particles on silicone substrate coated by covalent linkage" (Journal of Materials Science Letters 22, pp 1737-1740, (2003))
	T. Furuzono et al. "Establishment of Biointerface Required in Regeneration Medicine" (Program & Abstracts for 13 <sup>th</sup> Annual Meeting of Japan Society for Blood Purification in Critical Care (2002)) (13 <sup>th</sup> Annual Meeting of Japan Society for Blood Purification in Critical Care, held at Keio Plaza Hotel, September 26-27, 2004)
	International Search Report (PCT/JP03/16003)

\*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.